

Abstract**DIFFERENTIAL IMAGING METHOD AND SYSTEM**

5 A differential imaging system is particularly
efficacious for detecting objects in high dispersion or
light-scattering mediums, such as seawater. Such a device
especially useful in mine detection. A single burst of
illumination is used as the light sensitive portion of the
system is gated so as to collect at least two images of
reflected light from the same burst of illumination. The
10 first image is modified and subtracted from the second image
to remove the common noise, and to further enhance the image
of the object to be detected.